



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,764	04/14/2004	David J. Khoury	2380-827	4671
23117 7590 12/11/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203				
EXAMINER				
KANGARLOO, RAMTIN				
ART UNIT		PAPER NUMBER		
4177				
MAIL DATE		DELIVERY MODE		
12/11/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/823,764

Applicant(s)

KHOURY ET AL.

Examiner

RAMTIN KANGARLOO

Art Unit

4177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SI/02)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____
- Paper No(s)/Mail Date 1/7/2005 and 4/14/2004

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-8, 10, 13-19, 21, 24-27, and 31-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Widegren (US Patent Application Publication No 2002/0062379).

Regarding **claim 1**, Widegren discloses a node of a communications network which dynamically establishes one or more access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link (Abstract).

Regarding **claim 2**, Widegren discloses a node of a communications network which dynamically establishes one or more access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link, differing ones of the multiple access bearers being configured for utilization by differing types of media services (Abstract).

Regarding **claim 3**, Widegren discloses the apparatus of claim 2, wherein the one or more access bearers carry connections for plural services of its associated type of media service (Abstract).

Regarding **claim 4**, Widegren discloses a node of a communications network which dynamically establishes plural access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link, the access bearers providing different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services (see Page. 1, Paragraph [0004] and Abstract).

Regarding **claim 5**, Widegren discloses a node of a communications network comprising: a port by which the node is connectable by an essentially fixed location physical link to a stationary equipment unit (see Page. 11, Paragraph [0126]); a connection control unit which dynamically establishes one or more access bearers for providing services to the stationary equipment unit (Fig. 19); a bearer service processing unit which maps the access bearers into packets of a transport protocol of the essentially fixed location physical link (see Page. 4, Paragraph [0036] and Abstract).

Regarding **claim 6**, Widegren discloses the apparatus of claims 1, 2, 4, or 5, wherein the node establishes multiple simultaneous access bearers (Fig. 19).

Regarding **claim 7**, Widegren discloses the apparatus of claims 1, 2, 4, or 5, wherein the multiple access bearers do not necessarily have a same bandwidth and a same quality of service capabilities (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0122]).

Regarding **claim 8**, Widegren discloses the apparatus of claims 1, 2, 4, or 5, wherein the multiple access bearers do not have a same bandwidth and a same quality of service capabilities (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0122]).

Regarding **claim 10**, Widegren discloses the apparatus of claims 1, 2, or 5, wherein the node establishes access bearers for providing different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0121]).

Regarding **claim 13**, Widegren discloses the apparatus of claim 5, wherein the bearer service processing unit maps the multiple access bearers into packets of the

transport protocol of the essentially fixed location physical link (see Page. 4, Paragraph [0036] and Fig.19).

Regarding **claim 14**, Widegren discloses a method of operating a communications network comprising: connecting a stationary equipment unit to an access interface node by an essentially fixed location physical link; dynamically establishing one or more access bearers (Fig. 19) for providing services to the stationary equipment unit; mapping the access bearers into packets of a transport protocol of the essentially fixed location physical link (see Page. 4, Paragraph [0036] and Abstract).

Regarding **claim 15**, Widegren discloses a method of operating a communications network comprising: connecting a stationary equipment unit to an access interface node by an essentially fixed location physical link; dynamically establishing one or more access bearers (Fig. 19) for providing services to the stationary equipment unit, differing ones of the multiple access bearers being configured for utilization by differing types of media services; mapping the access bearers into packets of a transport protocol of the essentially fixed location physical link(see Page. 4, Paragraph [0036] and Abstract).

Regarding **claim 16**, Widegren discloses the method of claim 15, further comprising carrying, on at least one of the multiple access bearers, connections for plural services of its associated type of media service (see Page. 6, Paragraph [0067]).

Regarding **claim 17**, Widegren discloses a method of operating a communications network comprising: connecting a stationary equipment unit to an access interface node by an essentially fixed location physical link; dynamically establishing plural access bearers for providing services to the stationary equipment unit, the access bearers providing different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services mapping the plural access bearers into packets of a transport protocol of the essentially fixed location physical link(see Page. 1, Paragraph [0004] and Abstract).

Regarding **claim 18**, Widegren discloses the method of claims 14, 15, or 17, further comprising establishing multiple simultaneous access bearers to the stationary equipment unit (Fig. 19).

Regarding **claim 19**, Widegren discloses the method of claim 14, 15, or 17, further comprising configuring the multiple simultaneous access bearers to have different bandwidths and different quality of service capabilities (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0122]).

Regarding **claim 21**, Widgren discloses the method of claim 14 or 15, further comprising establishing access bearers for providing different types of services to the stationary equipment unit, the different types of services including one of a voice service, a video service, and a data traffic service (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0121]).

Regarding **claim 24**, Widgren discloses a stationary equipment unit comprising: means for forming a physical connection to a network by a non-radio fixed position physical link; means for executing plural media services; a protocol stack which, for the plural media services, utilizes dynamically established access bearers which are mapped into packets of a transport protocol of the essentially fixed location physical link (see Page. 1, Paragraph [0004] and Abstract).

Regarding **claim 25**, Widgren discloses the apparatus of claim 24, wherein differing ones of the multiple access bearers are configured for utilization by differing types of media services (see Page. 4, Paragraph [0041]).

Regarding **claim 26**, Widgren discloses the apparatus of claim 25, wherein the different types of services including one of voice services, video services, and data traffic services (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0121]).

Regarding **claim 27**, Widegren discloses the apparatus of claim 24, wherein the multiple access bearers do not necessarily have a same bandwidth and a same quality of service capabilities (see Page. 1, Paragraph [0004] and Page. 10, Paragraph [0122]).

Regarding **claim 31**, Widegren discloses the apparatus of claim 24, further comprising means for providing mobile termination across a radio interface (see Page. 8, Paragraph [0101]).

Regarding **claim 32**, Widegren discloses the apparatus of claim 24, further comprising a USIM card (see Page. 8, Paragraph [0104]).

3. Claims 1 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Widegren (US Patent Application Publication No 2002/0165966).

Regarding **claim 1**, Widegren discloses a node of a communications network which dynamically establishes one or more access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link (Abstract).

Regarding **claim 12**, Widegren discloses the apparatus of claim 5, wherein the packets of the transport protocol are one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets (see Page. 6, Paragraph [0075]).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 9, 20 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widegren (US Patent Application Publication No 2002/0062379) in view of Soininen (Patent Application Publication No WO 03/003767).

Regarding **claim 9, 20 and 28**, Widegren discloses all of the limitations as applied to claim 1, 17 and 24. Widegren does not specifically disclose the multiple simultaneous access bearers include both circuit switched access bearers and packet switched access bearers. Soininen teaches the multiple simultaneous access bearers include both circuit switched access bearers and packet switched access bearers (See Abstract).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount circuit switched and packet switched access

Art Unit: 4177

bearers taught by Soininen on to the equipment unit as shown in Widegren in order to deliver a user packet so that the systems run more efficient.

6. Claims 11, 22 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widegren (US Patent Application Publication No 2002/0062379) in view of Bugeja (US Patent Application Publication No 2002/0177446)

Regarding **claim 11, 22 and 29** Widegren discloses all of the limitations as applied to claim 1, 17 and 24. Widegren does not specifically disclose the essentially fixed location physical link is one of the following: (1) a wire line link; (2) an optical link; (3) a radio link of a radio access network which does not involve mobility management. Bugeja teaches the essentially fixed location physical link is one of the following: (1) a wire line link; (2) an optical link; (3) a radio link of a radio access network which does not involve mobility management (see Page. 1, Paragraph [0006]).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount links taught by Bugeja on to the equipment unit as show in Widegren in order to deliver a user packet so that the systems become cost efficient.

7. Claims 23 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widegren (US Patent Application Publication No 2002/0062379) in view of Oyama (US Patent Application Publication No 2002/0165966).

Regarding **claim 23 and 30** Widegren discloses all of the limitations as applied to claim 15 and 24. Widegren does not specifically disclose further comprising using as the packets of the transport protocol one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets. Oyama teaches further comprising using as the packets of the transport protocol one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets (see Page. 6, Paragraph [0075]).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include quality of service mechanisms taught by Oyama in the system as show in Widegren in order to deliver a user packet so that the systems become well organized.

Conclusion

8. Any response to this Office Action should be **faxed** to (571) 273-8300 or **Mailed** to :

Commissioner for Patents,
P.O.Box 1450

Hand-delivered responses should be brought to

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Art Unit: 4177

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMTIN KANGARLOO whose telephone number is (571)270-3452. The examiner can normally be reached on Monday to Thursday 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benny Tieu can be reached on (571) 272-7490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramtin Kangarloo
Examiner Art Unit 2609
December 3, 2007

/Benny Q Tieu/
Supervisory Patent Examiner, Art Unit 4177